

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

**EP 1 085 706 A3**

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:

30.10.2002 Bulletin 2002/44

(51) Int Cl.7: H04L 12/46, H04L 12/64

(43) Date of publication A2:

21.03.2001 Bulletin 2001/12

(21) Application number: 00111361.2

(22) Date of filing: 26.05.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(72) Inventors:

- Sasaki, Yuhi  
Yokohama-shi (JP)
- Shinohara, Toshiaki  
Omiya-shi (JP)
- Tsuzuki, Kengo  
Machida-shi (JP)

(30) Priority: 10.09.1999 JP 25763699

(71) Applicant: MATSUSHITA ELECTRIC INDUSTRIAL  
CO., LTD.

Kadoma-shi, Osaka 571-8501 (JP)

(74) Representative: Kügele, Bernhard et al

Novagraaf SA

25, Avenue du Pailly

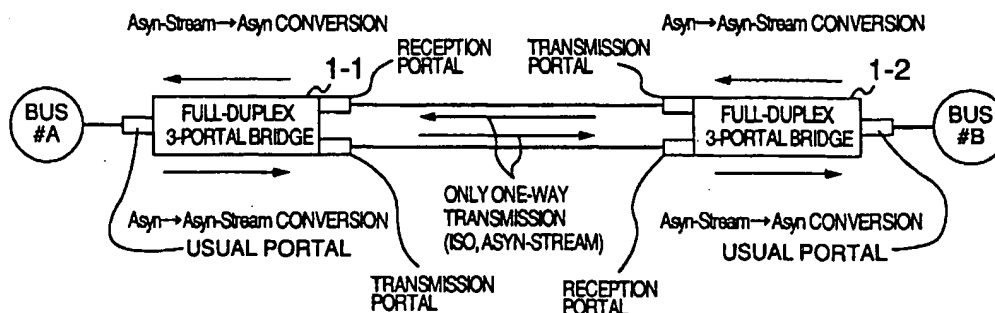
1220 Les Avanchets - Geneva (CH)

(54) **Bridge for IEEE 1394 bus network**

(57) The two-way transmissions are performed between a first bus (#A) and a usual portal of a first full-duplex 3-portal bridge (1-1) and between a second bus (#B) and a usual portal of a second full-duplex 3-portal bridge (1-2), respectively. The one-way transmission of an isochronous packet and an asynchronous stream packet is performed between transmission and recep-

tion portals of the first full-duplex 3-portal bridge (1-1) and reception and transmission portals of the second full-duplex 3-portal bridge (1-2). The first full-duplex 3-portal bridge (1-1) and the second full-duplex 3-portal bridge (1-2) perform a conversion between the asynchronous stream packet and an asynchronous packet if necessary.

**FIG. 4A**



EP 1 085 706 A3

EP 1 085 706 A3



European Patent  
Office

EUROPEAN SEARCH REPORT

Application Number  
EP 00 11 1361

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 98 11726 A (SONY TRANS COM INC) 19 March 1998 (1998-03-19) * page 12, line 11 - line 21 * * page 14, line 1 - line 9; figure 2 * ---	1,2,5,9, 11,17,18	H04L12/46 H04L12/64
A	EP 0 836 299 A (SUN MICROSYSTEMS INC) 15 April 1998 (1998-04-15) * figure 1 * -----	1-22	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H04L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 September 2002	Examiner Gregori, S
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.02 (p04/d01)

EP 1 085 706 A3

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 11 1361

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-09-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9811726	A	19-03-1998	US 6014381 A	11-01-2000
			AU 4338397 A	02-04-1998
			WO 9811726 A1	19-03-1998
EP 0836299	A	15-04-1998	US 6065052 A	16-05-2000
			EP 0836299 A2	15-04-1998
			JP 10164140 A	19-06-1998
			US 6233615 B1	15-05-2001
			US 2002059442 A1	16-05-2002

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**THIS PAGE BLANK (USPTO)**